
Rule CIC151: The RAPOOL value may be too large

Finding: CPExpert has determined that the value specified for the Receive-Any Pool (RAPOOL) may be too large.

Impact: This finding should normally have a LOW IMPACT on the performance of the CICS region.

Logic flow: The following rule caused this rule to be invoked:
Rule CIC110: CICS encountered a Short-on-Storage condition

Discussion: The discussion associated with Rule CIC150 describes how the RAPOOL value is used to control the number of concurrent CICS receive-any requests. Please refer to that rule for basic discussion.

The VTAM request parameter list (RPLs) is used to satisfy input requests from VTAM terminals to start transactions. CICS provides a pool of RPLs using the value specified in the RAPOOL operand.

The CICS requested and shutdown VTAM statistics show the maximum number of RPLs posted by VTAM on any one dispatch of terminal control.

The maximum number of RPLs is less than the value specified for the RAPOOL operand in the data analyzed by CPExpert. This means that the RAPOOL operand is too large. If the RAPOOL value is too large, the excess virtual storage is wasted. (The RAPOOL value does not seriously affect real storage because the storage is not page-fixed and can be paged out.)

However, there is little damage caused by the excessive value in the RAPOOL operand if virtual storage is not constrained.

Suggestion: CPExpert suggests that you consider decreasing the RAPOOL value in the SIT. The RAPOOL value generally should be decreased to the value shown in the maximum number of RPLs.

NOTE: The significance of this finding depends upon whether the finding is based upon analyzing daily information or based upon analyzing historical information.

- If this finding is based upon an analysis of daily information, the finding may be applicable only to the performance of CICS for this

day. Unless you feel that the analysis is generally applicable (or unless the workload processed on this day is particularly critical), please wait until CPExpert performs an analysis of historical information before taking action.

- If this finding is based upon an analysis of historical data covering a prolonged period, the finding is more definite than a tentative finding based upon analysis of only a single day's data.

Reference: *CICS/OS/VS Version 1.7 Performance Guide*: pages 59-60 and pages 209-213.

CICS/MVS Version 2.1.2 Performance Guide: pages 131-133 and pages 387-388.

CICS/ESA Version 3.1.1 Performance Guide: pages 144-146 and pages 209-213.

CICS/ESA Version 3.2.1 Performance Guide: pages 127-131 and pages 354-355.

CICS/ESA Version 3.3.1 Performance Guide: pages 137-141 and pages 372-373.

CICS/ESA Version 4.1.1 Performance Guide: Section 4.3.2, Section 4.3.3, and Appendix A.1.35.

CICS/TS Release 1.1 Performance Guide: Section 4.3.2, Section 4.3.3, and Appendix 1.1.31.

CICS/TS Release 1.2 Performance Guide: Section 2.2.14, and Appendix 1.1.32.

CICS/TS Release 1.3 Performance Guide: Section 2.2.14, and Appendix 1.1.35.

CICS/TS for z/OS Release 2.1 Performance Guide: Chapter 5 (VTAM statistics) and Appendix A (Table 148).

CICS/TS for z/OS Release 2.2 Performance Guide: Section 4.3.3 Setting the size of the receive-any pool (RAPOOL).